



Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 01

DATE: 17.04.2018

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2018-19/966

RLY	N	C	R	Coach No.	1	8	2	9	8	9	/	C	DATE OF DISPATCH	2	9	-	1	2	-	1	8			
DISPATCH TO	Sr.CDO/ALD			Type	L	W	S	C	N	1	Shell No.	8	7	3	4	5	-	2	0	1	8	-	1	9

1. **Railway Board's Order No.** : 2018/M(C)/142/2, Dated-17-10-2018
2. **Tare Weight of Coach** : 41.24 Tones
3. **Carrying Capacity** : (a) Seating: 80 (b) Sleeping: 80 (c) Luggage: NIL

4. SHELL LEADING DIMENSIONS :

S NO	DESCRIPTION	DIMENSION (MM)
1.	Maximum length over body	23700
2.	Maximum width over body	3240
3.	Maximum height from Rail Level	4039
4.	CBC height/Buffer height from Rail level 1105 +0/-10	1) 1095 (NPPE) 2) 1097 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame Front Part	PP END M/S- DTL, PUNE	39
		NPP END M/S- DTL, PUNE	39
		Complete M/S- DTL, PUNE	39
2.	Lav. side wall	M/S- RAIL FAB. KXH	LAV.1 - LAV.2 -
		M/S- RAIL FAB. KXH	LAV.3 - LAV.4 -
3.	Side wall	LH SIDE M/s- ECBT, CDG	35
		RH SIDE M/s- ECBT, CDG	35
4.	End wall	PP END M/s- PROTO D ENGG.	---
		NPP END M/s- NECHD, CDG	---
5.	Roof	M/S- PENNAR, THIRUVALLUR	218
6.	Centre Buffer Coupler	M/S- DELLNER INDIA PVT.LTD.	PP END 3052 NPP END 2988

6. AIRBRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full brake application	➤ Reduce pressure of BP from 5.0 to 3.4 kg/cm ² . ➤ Max. pressure in BC ➤ All Brake are applied	6 - 10 sec. 3.0 ± 0.15 kg/cm ² . OK	09 Sec. 3.0 kg/cm ² OK
2.	Insensitivity	➤ Exhaust BP @ 0.3 kg/cm ² /min.	No brake application	OK
3.	Sensitivity	➤ Exhaust BP @ 0.1 kg/cm ² /Sec, after 06 Sec.	Brake must apply	OK

7. PAINTING DETAILS:

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	APPLICATION BY MCF/ CONTRACTOR(SUPPLY & APPLY)	AVERAGE GLOSS VALUE
1.	Paint	P.U	M/s -GS	Supply & apply	89/88
2.	Insulation			Satisfactory	

(Signature)
SSE/QC/MCF/RBL
मुणवत्ता विभाग

रेडिओका, रायबरेली (लालगंज)



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO.: 01

DATE: 16.05.2016

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RLY	N	C	R	-	Type	L	W	S	C	N	1	Shell No.	8	7	3	4	5	-	-	-	-	-	-	-	-	-

8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	182261				182262			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL-1489				VS-1448			
Bolster no.	APEX-417				AMIT-340			
Axle No	18 H -2437 RWF		18 G- 8807 RWF		18 D - 9938 RWF		18 H - 2656 RWF	
Wheel Dia	917.542	917.593	917.542	917.582	917.547	917.566	917.542	917.684
Wheel Disc No	TZ07-18 37157-8RM7	TZ08-18 45281-8RR2	TZ07-18 40554-8RQ1	TZ08-18 45021-8RM8	TZ07-17 24582-7QJ4	TZ07-17 27113-7QJ9	TZ07-18 37155-6RM7	TZ08-18 45023-8RM8
R.B. Nos.	05-18 27035	05-18 38944	04-18 25926	05-18 11507	04-18 24786	05-18 39422	04-18 25160	05-18 11506
CT R B Make	SKF		SKF		SKF		SKF	

9. SECONDARY SUSPENSION LOAD DEFLECTION VALUES :-

DESCRIPTION	Bogie NPP side				Bogie PP side			
	Secondary 1		Secondary 2		Secondary 1		Secondary 2	
	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
Make & Nos.	CMFSK09-18-5101-451-33	CMRSK12-16-F08N19-08Y-753	CMFSK09-18-5101-451-50	CMRSK12-16-F08N12-08Y-1753	CMFSK09-18-5101-451-31	CMRSK09-15-F08R58-08Y-441	CMFSK09-18-5101-451-17	CMRSK04-18-F08N73-08Y-981
Compressed Ht. at Tested Load	513	470	515	472	513	470	513.5	470
Alignment deviation (mm)	9	4	9	4	7	5	7	5

10. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	852,761	779,766
2.	Primary outer Spring	CMGBD	10-18 1100 (122-473,121-544,121-558,122-217)	10-18 1100-122(593,527,223),121-261
3.	Primary Inner Spring	CMGBD	05-18 1101 (57-1040,56-1075,57-1043,57-1076)	07-18 1101(57-1201,56-1066,56-1101,57-1100)
4.	Primary Damper	KNORR	12-17(14013,13038,13812,13261)	12-17 (13270,13030,13597,13531)
5.	Secondary Damper	GEREP	KW 16-2018 301550739	KW 16-2018 301550739
6.	Lateral Damper	KNORR	06-18 3812	05-18 3200
7.	Brake Cylinder	FAV	K18-668,K18-671,L18-031,K18-330	K18-331,L18-032,L18-011,K18-091
8.	Brake Caliper	FAV	L18(852,850,1162,1163)	L18(1164,1161,1034,1036)
9.	Brake Disc	FAV	10-18-(4625,4626),11-18 (5498,5361)-D133561-300	11-18(5173,5174),10-18(4435,3491)D133561-300
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	BONY		
12.	Traction Centre make	SARITA		
13.	Traction lever make	SARITA		
14.	Ball joint traction lever	SGA		
15.	Ball joint traction centre	AR		
16.	Secondary Rubber Pad	DURIEL/TESCPAK		
17.	Rubber Spring	AR		
18.	Anti roll bar Make	WOM		
19.	Roll Link make	SARITA /AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	021018-1,031118-4,311018-4,311018-4	021118-1,311018-4,311018-2,021118-1
22.	Control Arm Lower	RVE	29018-4,291018-3,291018-3,291018-3	101118-4,101118-4,291018-2,RVE

Signature of SSE/Bogie/QC



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DISPATCH TO	Sr.CDO/ALD	Type	L	W	S	C	N	1	Shell No.	8	7	3	4	5	-	2	0	1	8	-	1	9
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11. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	L 18057 B
2.	Pull box	M/s- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	
3.	Distribution valve	M/s- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	
4.	Foot Step	M/s- SUPER SPARK PVT. LTD. FARIDABAD	18105573 B
5.	Decoupling arrangement	M/S KOHINOOR INDUSTRIES, JUC	
6.	Floor board	M/s- SHREE RAM PNL, GOVINDGARH P.B.	
7.	PVC	M/S- RESPONSIVE IND.DELHI	
8.	Lavatory Inlay	M/s- SEEMA IND. BHOPAL	
9.	UIC Vestibule (PPE)	M/S-SUNCREST IND.KOLKATA	
10.	UIC Vestibule (NPPE)	M/S-SUNCREST IND.KOLKATA	
11.	Gangway bridge mounting (PPE)	M/S- COMPETENT ENG. JUC	
12.	Gangway bridge mounting (NPPE)	M/S- COMPETENT ENG. JUC	
13.	Body Side Window	M/S- AGF INDS, KOLKATA	
14.	Emergency Window	M/S- AGF INDS, KOLKATA	
15.	Hopper Window	M/S- AIKON IND.SALON H.P	
16.	Side panel	M/S-SUNGLOW PUNJAB LAMINATE	
17.	Roof ceiling	M/S- SYNTHETIC MODULAR ,KOLKATA	
18.	Door way ceiling	M/s- RAJA IND. KHANNA	
19.	Body Side Door	M/s- JVR LDH	
20.	Vestibule Door(PPE)	M/s- JBM, FARIDABAD	
21.	Vestibule Door(NPPE)	M/s- JBM, FARIDABAD	
22.	Bio Tank	M/S- RAIL FAB, KXH	
23.	Auxiliary Water Tank	M/s- AMIT ENG. MOHALI	
24.	Under Slung Water Tank(2X685L)	M/s- AMIT ENG. MOHALI	
25.	Under Slung Water Tank (1X685L)	M/s- KUTEER EQUIPMENT, PANCHKULA	
26.	Controlled Discharge Tap	M/s- AGMECO PVT. LTD. UK	
27.	Lavatory Doors	M/s- KALSI, LDH	
28.	Flexible Faucet	M/s- KAPCO VALVES, JALANDHAR	
29.	Lotah Filler Tap	M/s- KAPCO VALVES, JALANDHAR	
30.	Seat & Berth	M/s- SUKATA, CDG	
31.	Snack Table	N/A	

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MCF/RBL/QC/RSC/2018-19/966

गुणवत्ता विभाग

रेडिओका, रायबरेली (लालाज)



Modern Coach Factory Raebareli

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DISPATCH TO		Sr.CDO/ALD		Type	L	W	S	C	N	1	Shell No.		8	7	3	4	5	-	2	0	1	8	-	1	9

12. MODIFICATION (IF ANY) : NIL

13. DEVIATION (IF ANY) : NIL

14. ITEM FITTED ON THE COACH ON TRIAL : NIL

S NO	ITEM PARTICULARS	PURPOSE	REPORT Frequency	REFERENCE & PERIOD OF TRIAL

15. WARRANTY:

S NO	COMPONENTS	WARRANTY
1	Brake Pad, wheels, flushing valves, push gravity cocks, moldings, window glasses, mirrors, clutch wire etc. (items which are consumable in nature)	NIL
2	Other coach furnishing sub assemblies(bought out items)	24 months from the date of dispatch of coach OR 30 months from the date of supply of material whichever is earlier.

NOTE:

- This warranty covers free supply of parts which wear out and fails within warranty period of normal service.
- This doesn't covers faults arising out of accident, non standard maintenance practices, abnormal use or mishandling, vandal activity, arson & deficient/pilferage etc.
- This doesn't cover any consequential liabilities or damages/loss incurred by anybody; furthermore, it shall in no case extend to repayment, return of the coach or replacement of complete coach.
- Whether a defective part is to be replaced or repaired shall be at the discretion of MCF/RBL.
- For any complain/ suggestion please Mail at qualityrcfbl@gmail.com
- Painting on supply & apply contract :- supply of material and application shall be warranted for a period of three years from date of Application for any manufacturing /Application as per clause -4, para- V of RDSO specification no .M&C/PCN/100/2013-Given below -

S.No	Time period	Gloss Retention (initial gloss >85 unit at 60°)	Colour Retention rating on 0-10 scale (initial rating of painted panels/coach or ISC/RAL shade card shall be taken as 10)	Adherence of paints (with each other and with substrate)Cross-cut tape adhesion test as per ASTM D:3359/97(or latest)
1	After 1 year	80% of initial gloss	7	5B
2	After 2 year	70% of initial gloss	6	5B
3	After 3 year	60% of initial gloss	5	4B

If any imperfection is noticed or any defect arises during the warranty -period due to improper material used or due to bad workmanship, the contractor shall be bounded to set right the defect/ imperfection on free of cost basis at the base depot of the coach.

 SSE/QC/MCF/RBL गुणवत्ता विभाग रेडिंका 0, रायबरेली (लालगंज)	 AME/QC/MCF/RBL Modern Coach Factory, Raebareli	 Dy. COM/MCF/RBL Modern Coach Factory, Raebareli
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Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

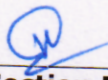
DATE: 18.01.2017

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC SCN COACHES
ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC COACHES

TYPE COACH	LWSCN	SHELL/COACH NO	182989/C
RAILWAY	NCR	DATE OF DESPATCH	
Sr no	Description of test	Remarks	
1.	PUMP EQUIPMENTS	OK	
2.	LIGHTS, NL, LAP CHARGING SOCKETS	OK	
3.	RAILWAY CARRIAGE FAN	OK	
4.	WHEEL SLIDE PROTECTION SYSTEM (WSP)	OK	
5.	WORKING OF 9 KVA TRANSFORMER	OK	
6.	WORKING OF REGULATED BATTERY CHARGER	OK	
7.	SAFETIES :		
7.1.	FUSES AND THEIR RATING	OK	
7.2.	CONTROL CIRCUIT	OK	
7.3.	POWER CIRCUIT	OK	


Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli



Modern Coach Factory Raebareli
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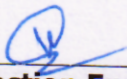
DATE:18.01.2017

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

01.	Switch board cabinet Make : AMIT ENGG. On Board Sr no : AE/USBC-817 HT Panel Sr no : AE/USBC-828	EDTS 333, Rev`01'Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2018/12/69 Sr no.1 : 18100567 Sr no.2 : 18110418 Sr no.CPA: 2018/12/018-DR AUTO	As per spec EDTS 186,Rev-a, Am- 2	01
03.	Emergency light system for EOG type coaches (AEL), Make : VGS	EDTS 151,Rev -c Am-1 & 2	04
04.	Passenger Alarm Cum Indication Light (PACIL) Make: KAVERI	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I	02
05.	Fitment of Switch Plate Assly(Cabin Side) Make : SSK/SALZER	EDML 086,Rev-03, ITEM-01	10
06.	Fitment of Switch Plate Assly Corridor Side),Make : SSK/SALZER	EDML 086, Rev 03, ITEM-02	10
07.	Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make : IMT CABLES	IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	30
08.	Cabin, Corridor, doorway and Gangway Lights. Make: DR AUTO	As per RDSO/PE/SPEC/TL-0091(REV-1) TYPE B-1	26
09.	Lavatory Light Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-D &	04
10.	Night Light Fitting (LED BASED) Sticker For Berth Number On Night light Fitting For LHBSCN(80-BERTHER)Coaches Make : AGASTYA	CC76289 & CC76443	10


Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli



Modern Coach Factory Raebareli
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

11.	Battery fuse box +ve Make : AECO	LW 71001,Alt-F	01
12.	Battery fuse box -ve Make : NEC	LW 71002,Alt-F	01
13.	Regulated battery charger Make : SIGNOTRON Sr no: 11180874	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : LHB-1581	As per RDSO/PE/SPEC/TL 0158, 2010, Rev` 0',Ty I.	01
15.	ZS coupling 400A/750V/03Ph/50hz. Make : MAA LAXMI INDUSTRIES	As per spec No EDTS 105,Rev` e' Am-3, TYPE-2	01 set
16.	Feeder junction boxes. Make : AECO	EDTS-328 REV-C	01 set
17.	Wheel set earthing equipment. Make : DARSHAN/CHANDA & CHANDA	EDTS101,REV-C,AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 39-18-1633	M/s : FAIVELEY	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : AMARA RAJA Lug date : 04/17	RDSO/pe/spec/ac-0009 rev-1- 2008 amdt-1	01 set
20.	Battery box for LHB coaches. Make : ANANYA	CC 91205	01

SSE/EL/QC	SEE(P)/MCF/RBL/ DYCEE/P&P/MCF/RBL

वरिष्ठ अनुभाग अभियन्ता

गुणवत्ता नियंत्रण

आपरेटिंग/लागू/रायबरेली

S.S.E./Elect-QC/M.C.F./LLJ/RBL

वरिष्ठ विद्युत अभियन्ता
रेल कोच कारखाना, रायबरेली, लखनऊ
Sr. Electrical Engineer / RBL / Lucknow